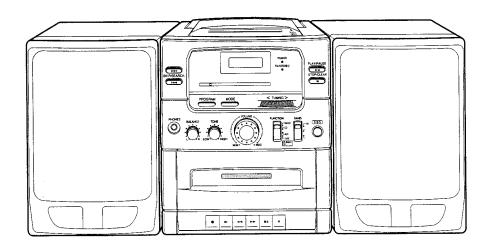


OWNER'S INSTRUCTIONS

Before operating the unit, please read this manual thoroughly and retain it for future reference.

PCD-650





WARNING:

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

CAUTION:

Use of controls for adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE KLASS 1 LASER APPARAT

This compact disc player is classified as a CLASS 1 LASER product.

DANGER:

Invisible laser radiation when open and interlock is defeated or has failed. Avoid direct exposure to beam.





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Design and specifications subject to change without notice.

Operating Voltage

AC: See rating label on the back cabinet. DC: 13.5V (UM-1, D, DM, R20, HP2 sizex9)

PRECAUTIONS

- Before operating the unit, make sure that the operating voltage of your unit is identical with that of your local power supply. For AC operation, use the supplied AC power cord only. For battery operation, use 9UM-1 (D, DM, R20, HP2) batteries.
- Unplug the unit from the wall outlet when it is not going to be used for an extended period of time.
- The unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- When the internal batteries are not to be used, remove them to avoid damage caused by battery leakage and corrosion.
- As the laser beam used in this unit is harmful to the eyes, do not attempt to disassemble the casing.
 Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the unit, unplug the unit, and have it checked by qualified personnel before operating it any further.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- If the unit is left in a car parked in the sun, be sure to choose a location in the car where the unit will not be subject to the direct rays of the sun.
- Do not lift the unit by the handle while the telescopic antenna is extended.

- If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player section. Should this occur, the player will not operate properly. In this case, remove the disc and wait about an hour for the moisture to evaporate.
- The use of 120 minute cassette tapes is not recommended.

Copyright-Important

It is an infringement of copyright to copy CD's and pre-recorded cassettes or to re-record them in any form without the permission of the owners of the copyrights concerned.

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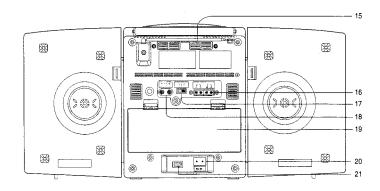
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CONTROLS AND COMPONENTS

<Front Panel>

POWER PLAYPAUSE 7 STORCHAM MOCE TUNING > 9 TUNING > 9 TUNING > 10 TONE SHALANCE TONE SHALANCE STORCHAM STORC

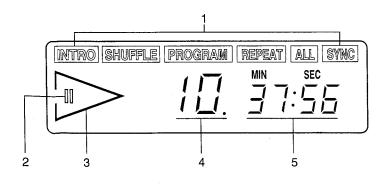
<Rear Panel>



- 1. SKIP/SEARCH button
- 2. PROGRAM button
- 3. MODE button
- 4. PHONES jack
- 5. BALANCE control
- 6. TONE control
- 7. PLAY/PAUSE button
- 8. STOP/CLEAR button
- 9. TUNING control
- 10. SBS button
- 11. BAND selector
- 12. FUNCTION selector
- 13. VOLUME control

- 14. DECK operation buttons
 - **REC** button
 - PLAY button
 - **REW** button
 - F.FWD button
 - STOP/EJECT button
 - PAUSE button
- 15. FM ROD ANTENNA
- 16. SPEAKER TERMINALS
- 17. MODE/BEAT CUT/FM STEREO-MONO Switch
- 18. Aux Input Jacks
- 19. Battery compartment
- 20. AC IN~
- 21. Voltage Selector (Option)

<Multi Function Display>



- 1. INTRO, SHUFFLE, PROGRAM, REPEAT, ALL, SYNC indicator.
- 2. PAUSE indicator.
- 3. PLAY indicator.
- 4. Track number indicator.
- 5. TIME indicator.

SBS SYSTEM

Your player is equipped with a bass boost function called SBS. This function makes the sound more powerful by boosting the low frequencies.

- 1. Press the SBS button on the front panel. The bass frequencies are boosted.
- 2. To cancel this function, press SBS again.

LISTENING TO THE RADIO

- 1. Set the FUNCTION selector to the RADIO position.
- 2. Select the band desired (AM or FM) with the BAND selector.
- 3. Tune to the desired broadcasting station by using the TUNING knob.
- 4. Adjust the VOLUME, TONE and BALANCE controls to obtain the best listening conditions.

To get the best reception.

- Note 1: * FM: Adjust the direction and length of telescopic rod antenna.
 - * AM(MW), LW(option) : Rotate this unit horizontally.
 - * SW(option): Adjust the telescopic rod antenna in vertical direction.

Note 2: A weak FM stereo signal may result in too much background noise being heard. It may improve to set the MODE/BEAT-CUT selector to MONO.

The FM stereo broadcast will be received in Mono but the background noise will probably be reduced.

TO PLAY A COMPACT DISC

Normal Play

- 1. Set the FUNCTION selector to the CD position.
- 2. Insert the disc to be played. The number of tracks, the total playing time and track number display in the disc will appear on the LCD.
- 3. Close the CD DOOR.

Note: To pause, press the PLAY/PAUSE button.

To resume play, press the PLAY/PAUSE button again.

- 4. Adjust the VOLUME, TONE and BALANCE CONTROLS.
- 5. Press the STOP/CLEAR button to stop CD playback.

Note: Do not open the CD door when in play mode. Otherwise, the disc may be damaged.

Be sure to stop the disc first.

To Search For A Particular Point Within A Track

- 1. Press and hold the SKIP/SEARCH ▶▶I button during playback to quickly advance through the disc.
- 2. Press and hold the SKIP/SEARCH I◄◀ button during playback to quickly reverse through the disc being played.
- 3. Release the ▶►I button to resume normal playback.

Note: It is recommended that you reduce the volume level during search to prevent high frequency information from damaging your speakers.

To Locate The Beginning of A Desired Track

- 1. Press the SKIP/SEARCH ▶▶I button once, playback advances to the beginning of the next track.
 - Press the SKIP/SEARCH ▶▶I button repeatedly, playback advances to further tracks.
- 2. Press the SKIP/SEARCH I◄◀ button once, playback returns to the beginning of the currently playing track.
 - Press the SKIP/SEARCH I◀◀ button repeatedly, playback returns to previous tracks.

INTRO Scan Play-Scanning all the tracks.

- 1. Press the MODE button until "INTRO" is displayed on the LCD when a disc is not being played. (STOP Mode)
- 2. Press the PLAY/PAUSE button and the beginning of each track is played for 10 seconds.

Note: Press the STOP or PLAY/PAUSE button to cancel this function.

REPEAT Play

- 1. Repeating one track-Press the MODE button until "REPEAT" appears on the LCD. One track only is played repeatedly.
- 2. Repeating all tracks-Press the MODE button until "REPEAT" and "ALL" appear on the LCD. All tracks in the disc are played repeatedly.

SHUFFLE Play-Playing in a random order.

- 1. Press the MODE button until "SHUFFLE" appears on the LCD during STOP Mode or PLAY Mode.
- 2. Press the PLAY/PAUSE button. The tracks are played in a random order.

Note: To cancel this function, press the MODE button and "SHUFFLE" disappears.

Programming

- 1. Press the STOP/CLEAR button.
 - To enter a program into memory, the unit must be in the STOP Mode.
- 2. Press the PROGRAM button "PROGRAM" is displayed on the LCD.
- 3. Use SKIP/SEARCH buttons ▶▶I or I◄◄ to select the track desired.
- 4. Press the PROGRAM button, to enter selected track into memory. P⁻ -- will appear. If you are correcting a preset, C⁻ -- will appear.
 - In this way you can memorize up to 16 tracks.
- 5. Press the PLAY/PAUSE button and the tracks will be played in the order in memory.
- 6. To erase the programming, press the STOP/CLEAR button twice during playing.
- Note 1: Opening the CD DOOR will erase all of the memorized tracks.

Note 2: If the "REPEAT" or "REPEAT ALL" is lit, the unit replays in the order entered in memory.

LISTENING TO A CASSETTE TAPE

PLAY

- 1. Set the FUNCTION selector to the TAPE position.
- 2. Press the STOP/EJECT button to open the cassette compartment and insert a recorded tape.
- 3. Press the PLAY button to start the tape.
- 4. Adjust the VOLUME, TONE and BALANCE controls to obtain the best listening conditions.

RADIO RECORDING

- 1. Set the FUNCTION selector to the RADIO position.
- 2. Open the cassette door, insert a cassette tape into the cassette compartment.
- 3. Select the desired band, tune in the desired station.
- 4. Press the RECORD button.

Note: When AM is being recorded, the MODE/BEAT CUT selector can be used to reduce noise. Set the selector to the best position in which such noise can be reduced.

CD RECORDING

- 1. Set the FUNCTION selector to the CD position.
- 2. Insert a cassette tape into the cassette compartment
- 3. Insert a disc.
- 4. Press the RECORD button.

Recording starts from the beginning of the disc automatically.

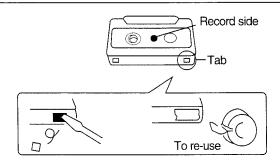
"[SYNC]" is lit on the LCD. (Synchro CD Recording)

Note 1: If you press the RECORD button while playing a CD, the track goes back to the beginning of the current track.

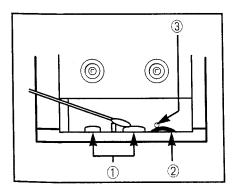
Note 2 : With the exception of the STOP button, the buttons of the CD player do not operate during Synchro CD Recording.

TO PREVENT ACCIDENTAL ERASURE

Break off the tab corresponding to the side on which the recording has been made. This protects the recording from accidental erasure.



Cleaning the Heads and Tape Path



We recommend cleaning after every 10 hours of operating. However, To make the best recording, clean all the surfaces over which the tape travels before each recording.

Open the deck by pressing the STOP/EJECT (■ ♠) button. Use a cotton swab and a apecial cassette cleaning agent to clean the:

- ◆ Heads (1)
- ◆ Rollers (2)
- Drive capstan (3).

LISTENING TO AN EXTERNAL SOURCE

The auxiliary input can be used to take advantage of the sound quality of your System when listening to other sources. (ex) A television, video disc player, Hi-Fi stereo VCR etc.)

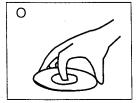
1. Connect the external source to the AUX input jacks (see Fig. 1)

Red jack.....R (right)

White jack.....L (left)

- 2. Set the Function selector to the AUX position.
- 3. Adjust the VOLUME, TONE and BALANCE controls to obtain the best listening conditions.

NOTES ON COMPACT DISCS



Χ

Handle the disc by its edge, do not touch the surface.

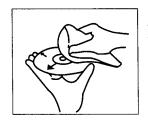
Do not stick paper or tape on the disc or write on its label section.

Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight where there can be a considerable rise in the temperature.

CAUTION!

(Fig.1)

Don't touch the lens.



Clean the disc occasionally with a CD cleaner.
Wipe the disc from the center out.

Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for analog discs.

After playing, store the disc in its case.

MAINTENANCE

CLEANING THE CABINET

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as benzene.

CLEANING THE LENS

If you have accidentally touched the lens of the CD player section with dirty fingers or dust has accumulated on it, the unit will not operate properly. In such cases, clean the lens with a lens cleaning kit.

SPECIFICATIONS

RADIO SECTION FM SECTION	
RECEPTION FREQUENCIES	.88 MHz~108 MHz
USABLE SENSITIVITY	
IMAGE REJECTION	
S/N RATIO	
TOTAL HARMONIC DISTORTION	
SEPARATION (STEREO)	.25 dB
AM(MW) SECTION	
	530 KHz~1700 KHz(UL/CSA)
USABLE SENSITIVITY	
SELECTIVITY	
IMAGE REJECTION	
S/N RATIO	40 dB
TOTAL HARMONIC DISTORTION	2 %
SW SECTION (option)	0.000
RECEPTION FREQUENCIES	6 MHz~18 MHz
USABLE SENSITIVITY	
S/N RATIO	40 dB
LW SECTION (option)	450 1/11 005 1/11-
RECEPTION FREQUENCIES	
USABLE SENSITIVITY	
S/N RATIO	34 dB
TAPE SECTION	
RECORD/PLAYBACK FREQUENCY RESPONSE	100 9 000 H -
S/N RATIO	
SEPARATION	
CROSSTALK	
ERASING EFFECT	55 dB
AUDIO SECTION OUTPUT POWER (4 Ohms)	4 WATTS/CHANNEL (THD 10%) AT DC
,	WATTO/OFIANNEE (THE 1070) AT EG
CD SECTION S/N RATIO	80 dB
TOTAL HARMONIC DISTORTION	
FREQUENCY RESPONSE	
CHANNEL SEPARATION	
SEARCH TIME	
SEARUR HIVIE	0 060
GENERAL SECTION	
DIMENSIONS	
POWER SOURCE (DC)	
WEIGHT	6.5 kg (Without Batteries)